Slaughtering and butchering

By Dynah Geissal

Fall is butchering time, a period of joy in the harvest of the year's work and of sadness that the lives of your beautiful, healthy animals have come to an end. On this occasion the animals should be treated with the same kindness and respect with which they were treated during their lives. Good farmers raise their animals free from fear, anxiety and stress. The animals should meet their end as they lived, without the terror of the slaughter-house.

Making careful preparations will help you remain calm. After years and years of butchering I still feel a strong adrenaline rush when the animal is killed. Be prepared for that and use it to make sure the death is as painless as possible. A knowledgeable person can direct these strong feelings into doing the job right instead of letting their emotions get the best of them and botching the job.

When the temperature only reaches 40° during the day and the pasture is no longer adequate feed, it is time to butcher. Sheep and goats should be nine months or under. Pigs should be just slightly jowly.

Past wisdom dictated that 250 pounds was optimum butchering weight for a pig, but after your porkers reach 225, the ratio of weight gain going to fat versus lean meat increases dramatically.

After many years of experimentation, I try for 200 pounds. At that point my pigs have no more of a fat covering than my goats. There's still enough fat for lard and sausage, but there's no reason to pour more and more feed into them only to find their kidneys so imbedded in fat that they're hard to locate. I buy my pigs in early May and by mid-November

they are eating so voraciously that I know it can no longer be practical to keep them.

Calves are traditionally kept until they are 10-15 months old, but that can be a problem for a family raising their own meat. If the calf was born in February it could be butchered in December. In a place like Montana, however, December is late for butchering. With the temperatures around 0°, your meat would have to hang a very long time to age.

If you decided to keep the calf till spring, you would be faced with deciding whether to butcher it after feeding all winter or to let it grow some on the pasture.

By the time the calf is looking really big, it's midsummer. In a cool climate you could butcher it then if you did it fast, but you would have to pay someone to hang it to age. In most climates, you don't butcher between May and October anyway, if you can help it, because of the fly problem. So then you're up to fall when you have all the other butchering to do. If you can manage it, I think that is your best option.

Here are a few additional suggestions to think about ahead of time. Butchering pigs and cows is easier if you withhold food for 24 hours before butchering. This is not totally necessary, and if you would feel bad having your animal hungry on its last day, don't do it. Just be extra careful with the guts.

When you butcher only certain members of a herd, avoid frightening the others. Don't run through the herd chasing the one you want. Move slowly and calmly. Try not to kill one animal in front of the others. Don't slaughter in the animal's home.

The exception to this is when you are slaughtering pigs. Swine do not care if you kill their companion and

will rush over to drink the blood if they can.

It makes sense to leave the pig butchering until last so that they can consume anything that is left over. Don't feed surplus fat to pigs, though. Only poultry can convert fat into useable production calories. That is because of their high rate of metabolism. If you feed fat to pigs, it will provide calories, but it can only become fat, not meat.

Before butchering, decide what parts you will save. I think I've tried saving just about everything, and I think there's some value in that. However, if no one wants to eat it, the value is only in learning and experimenting and knowing the possibilities.

There is a certain satisfaction in using everything. Ears and tail can flavor a pot of beans. Hooves can make gelatin. Stomachs can hold blood sausage and other things. Lungs are edible. Intestines can be used to make sausage casings or cooked in some other additional dishes.

I will describe what I keep, but feel free to make your own decisions about what you and your family would like to try.

A word about using the intestines for sausage. If the situation is such that you have running water in a hose, it is fairly easy to clean them. Otherwise you'll have to do it indoors, which is a lot of work. After that you have to turn them inside out and scrape them.

If you don't scrape them, they'll still be edible but they'll be tougher than you might like. These days I feed the intestines to the animals and buy prepared ones. If you buy them from a butcher house, they're already prepared and quite inexpensive. Try not to buy them in the grocery store, as they demand ridiculous prices.

Be sure to save enough fat for lard, sausage making, and if you're butchering a cow, for ground beef.

A goat is shot in the back of the head. The front is too hard. With a cow or a pig, mentally draw lines

from the top of each ear to the opposite eye. Where the lines cross is where you shoot. One shot with a .22 should do it.



Figure 1. Cutting around the foot.

We shoot pigs in their pen. That is the least traumatic for everyone. If you do this, though, you'll want to get the pig out of the pen as quickly as possible so as to slit the throat on clean ground.

Throw a noose around its neck and drag it out. You want to slit the throat while the heart is still beating in order to get all the blood pumped out.

Stick the point of your big knife into the throat and cut outward through the skin. Never try to cut into the skin through the hair. Make sure you've severed the main veins and arteries.

Any male animal that is to be used as food should have been castrated. If that wasn't done, however, remove the head and testicles right away. That's easy with a goat, but a cow or pig can kick with a real wallop, so be careful. This is done so the meat won't be tainted.

If you are butchering a pig, you will want to wash it down now. A pig is a clean animal in a natural environment but gets pretty dirty when confined. Be especially careful in cleaning the rear feet, for they'll stay on unskinned.

Remove the head by cutting all the way around with your big knife. As always, avoid cutting into the hair. Instead keep your knife between the

flesh and the skin and cut out. With a goat, twist the head until the bone snaps. With a pig or cow, use your meat saw.

Make slits between the achilles tendon and the ankles and insert the gambrel. At this point, you could scald a pig but in these days of preserving meat by freezing, there's really no point. In days past, the skin was left on the bacon and hams to protect them. It's traditional, but there's no other reason to leave it on since we don't eat it anyway. And logistically it's just much simpler to skin.

Remove front feet at the joint. Using a pulley for a goat and a come-along for a pig or cow, hoist the animal into the air to a height convenient for working on the rear of the animal.

Slip your short pointed knife (Figure 1) into the slit you made at the achilles tendon and cut around the foot, again cutting out, not in. Be very careful not to cut the tendon. With the knife between the flesh and the skin, slice a line through the skin down each leg to the centerline. Then cut down the body to the neck (Figure 2).

Now take your skinning knife and begin skinning at the junction where the leg cuts meet the centerline. Hold the skin with one hand or your hook and pull hard to create tension as you



Figure 2. Cutting down the body.

use your knife to separate the flesh from the skin. Work out from the center (Figure 3).

If you are not going to use the hide, you won't have to worry about keep-



Figure 3. Skinning from the center.

ing it intact. Just be concerned about the meat in that case. You'll have to be much more careful if you want to use the hide.

Keep pulling the skin away with your hand or the hook and continue to slice between the hide and the flesh until the belly is skinned. This will relieve the tension of the skin on the rump. Now work around the leg from front to back.

The next step is to start at the top of the "Y" and skin up and over the crotch. The skin is tightest here, so be especially careful if you're saving the hide. Pull skin out and down to create tension on your work while you slice with your knife. A layer of fat makes the animal relatively easy to skin. Leave as much fat on the body as possible.

Work over the anus to the tailbone. Give the tail a sharp jerk and it will separate from the vertebrae. From here on, the weight of the skin practically skins the animal for you. Work all around the body. If there is too much movement on the gambrel, lean against the animal.

Raise the beast when it becomes difficult to reach your work. Bring the work to you and stay comfortable. The forelegs are a bit difficult near the shoulders. Start on the outside of the leg (Figure 4). Work around to the front. Skin the neck and the inner forelegs and shed the skin.

Lower the animal so that you can comfortably work on the rear of it. At this point you want to separate the large intestine from the body. You will begin by cutting around the anus with your short pointed knife. Be careful not to make any holes in the intestine. When it is cut free, pull it slightly out and tie it off. It is helpful to have a partner here. This step (tying) is unnecessary if you are butchering a goat.

Cut down the belly with your pointed knife. Cut from inside out as before. With your other hand hold the guts away from the point of the knife (Figure 5). Cut through the belly fat all the way down to the sternum. Next, cut the meat between the legs.

If the animal is a male, cut out the penis. Place a large container underneath to catch the guts. By now



Figure 4. Skinning the foreleg.

they will be bulging out of the body. At some point if you are butchering a ruminant, there may be a flow of greenish liquid from the neck. This is just the cud and nothing to worry about. Cut through the fat surrounding the guts, then sever any tissue connecting them to the rear wall of the body cavity. Pull the anus through to the inside and then out. Separating the intestines from the body is tedious, so take your time. You don't want to spill the contents into the meat.

Be careful also not to rupture the bladder. Some people tie it and then cut it off, but I've found that method to be more likely to cause spillage.

Pull the intestines and bladder out of the body. Most of the stomach will also be free now. You will need to reach in and under to lift it all over the sternum. Some people cut through the sternum, but it's easy enough just to lift the guts out. Most everything will now be hanging out of the body.

Strip away as much of the surrounding belly fat as you can to feed to the chickens. Get out the bowl for the innards you want to keep. Remove the kidneys and fat. Cut out the liver and put it into the keeper bowl along with the kidneys. Sever the remaining flesh connecting the stomachs to the body, and it should all fall into the gut bucket.

Cut out the diaphragm and remove the lungs and heart by severing the connective tissue behind them. Separate the heart from the lungs and squeeze out the blood from the heart. The heart is a keeper, while the lungs aren't.

From the neck end, cut out the windpipe. Be sure the opening is clear all the way through the body cavity. Clean all over with cold water. (Now you see that if you hadn't cleaned those rear feet of a pig, the dirt from them could contaminate the meat.)

Except for pork, we age all our meat from fowl to cow, and strongly advise you to do the same. Pork should only hang overnight to chill, and all meat should be cut up in a chilled state.

A goat should age one week in 40° weather, longer in colder weather. If it's too warm to age it, it's a real shame to butcher at that time, because

the meat won't be as tender as it could be. A goat is hung whole.



Figure 5. Cutting down the belly.

To halve a larger carcass, face the belly while your partner helps hold the body and helps to guide the saw from the back when necessary. Use your fingertips on the blade to guide your cut.

A cow should be quartered for ease of handling, of course, but also to allow the meat to cool as quickly as possible. Merely cut between the 2nd and 3rd ribs and be ready to hold the fore section. It should be hung for two weeks under the proper conditions.

When you're finished working on the animal's body, it's time to salvage the tongue and brains from the head. The easiest way to get the tongue is to cut under the jaw in the soft space in the middle. When you have slit this open, reach in and cut the tongue loose from its mooring. Working through the mouth is much harder.

Chopping the skull with an axe works for getting out the brains, but sawing it in half with your meat saw gets the job done with a bit more finesse.

If you plan to use the rest of the head, you will have to skin it now. Remove the ears, eyes, nose and anything that doesn't look like meat or

bone. Clean thoroughly. You may want to brush the teeth. You could make goat's head soup or you could make headcheese. The only heads I use these days are pigs.

Some people use the jowls for bacon, but if you've butchered before the pig has gotten really fat, there won't be much there. I use the head meat for scrapple, tamale meat and pozole. I used to use some in liverwurst, but we prefer these other dishes.

In any case, you'll need a pot large enough to hold the head. If you cook with a wood stove as I do, just add water to cover, put a lid on and leave it on the stove to simmer until the meat is tender. It's less convenient if you use some other kind of fuel.



Figure 6. A goat ready to cut up.

Remove the meat and bones from the pot and separate them. Take out anything that looks strange and you're ready to use whatever recipes you've decided on. Boil down your broth to a manageable amount and either use it in your recipes or freeze it for later use.

When you are ready to cut up your meat, refer to the section that applies to your animal. Cutting up a deer or a sheep is the same as a goat.

Cutting up a goat

Cut behind the shoulder blades to remove the front legs. Cut off leg at elbow. These lower legs can be soup bones, but they're not much good for anything else. You can package the shoulder as it is or you can bone it, roll and tie for a rolled roast. You could also cut it up for stew meat.

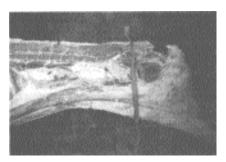


Figure 7. Separating the rear third of a pig.

Take as much meat from the neck as you can. Use that for soup.

You could cut chops if you wanted. You would have to saw through the backbone between every rib to do that. You could bone out the chops to avoid all the sawing. Or you could just cut out the whole muscle bundle along the backbone. It's called the backscrap and is the best meat on the animal (that's what I do).

Next take your meat saw and cut the ribs from the backbone. Then cut them in half with your knife for easy packaging. Underneath the backbone is the tenderloin. Cut that out.

Now for the rear third. Cut off the foot. Next cut off the leg at the knee. These are your shanks. Separate the legs at the pelvis. These are the only roasts I keep from a goat. I use the front shoulders for stew or stir fry. You can package the leg as it is or bone it. Boning saves a lot of space and a rolled roast is a pleasure to cut when it's cooked, too.

That's it except for working over all the bones to retrieve any last bits of

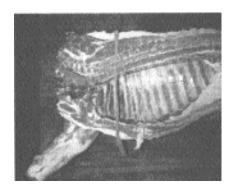


Figure 8. Separating the front third of a pig.

meat for your sausage bucket. I save one goat just for sausage and one for jerky. You may want to do that, or you may have other favorite uses. Goat meat (or *chevon* as it's called) is really wonderful when it's properly handled.

Cutting up a pig

There are many ways to cut up a pig and many ways to cure meat. I'm going to tell you how I do it and why I use this method. If you're doing your own curing, you have the vagaries of weather to contend with. Below freezing and it doesn't cure. Fifty degrees and it spoils.

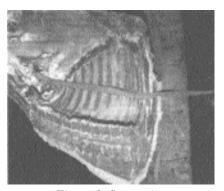


Figure 9. Separating the ribs from the chops.

In my first experiments I used an old fashioned cure. It was very salty. The hams and bacon hung in a cool room all year and didn't spoil. If you don't have a freezer, you could do that.

You can use a dry cure or a brine cure. In the brine cure, the strength of the brine is determined by the amount of meat. Theoretically it can't get too salty that way, and I have found that to be true.

If you butcher when it's 40°, and then it warms up to the 50s, then it freezes for a while, then warms up to 50° again, there's a real danger that your meat will sour around the bone. By the time it's in the warm smokehouse, you've really got trouble. For this reason I bone the hams. I have never had a problem since I began



Figure 10. Rolled pork roasts and the bone they came from.

doing this. Also it makes the ham nice to cut when it's rolled and tied.

Your pig should have hung overnight so that the meat is firm. Now you will want to cut your side of pork into thirds. To do this take your meat saw and cut straight down from the backbone through the aitch bone to separate the rear ham from the body. (Blue tape, Figure 7.) The cut should go right through the ball and socket joint. Remove the foot.

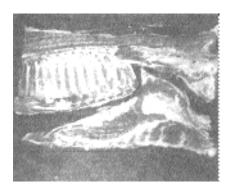


Figure 11. The bacon separated from the ribs.

To separate the front third, cut between the second and third ribs again cutting straight down from the backbone. (Blue tape, Figure 8.) Look carefully at the muscle bundles and try to keep them intact.

Take the middle section and make another cut after the 11th rib. Then cut across the ribs parallel to the backbone to separate the ribs from the chops. (Blue tape, Figure 9.) Look at both ends of the meat to see where to cut. Remove the belly fat and save it for sausage and lard.

Saw through the backbone for chops and finish your cuts with a knife. It's helpful to have a partner to hold it steady. Trim off the extra fat but as always, leave some.

Now trim out the loin. Feel the bone with your fingers and just cut out the muscle bundle as well as you can. This is your best roast. Cut it into whatever size you want (Figure 10).



Figure 12. A pig cut up but not yet boned (front).

Trim the excess fat from the ribs. Decide whether you want extra meaty ribs or if you want to slice off most of the meat for bacon. Cut the bacon from the ribs (Figure 11). Cut the ribs into easily packaged pieces, but leave the bacon whole until after smoking (Figure 12).

Before cutting your hams, you'll have to decide whether you want them large or small and how much meat you want for sausage, stir fry, etc.



Figure 13. Roasts, hams, chops, bacon, ribs & sausage trimmings.

Cutting hams and roasts takes some practice, but don't worry too much. They can always be trimmed to look nice and nothing is wasted. It can always go into the sausage bucket.

Begin two piles of trimmings. One will be for sausage and the other will be better pieces for stir fry. Take the front third and cut off the hock. If you wanted to make this a shoulder roast you could, but the meat is very fatty and not as good quality as the rear. It could also be used for sausage or stir fry.

When you make your roasts, study the muscle bundles and try to keep them intact as much as possible. To bone, cut to the bone and cut around it as well as possible and along the backbone to the third rib. Cut off the front muscle bundle and put it into the sausage bucket. Roll it up as it would be with the bone in and trim it to look nice. Trim off excess fat.

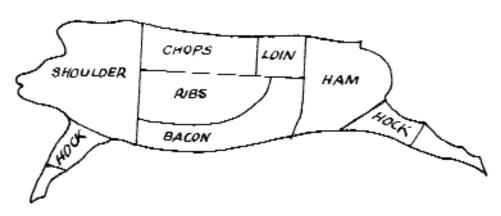


Figure 14. Cuts of meat from a pig.

Take the rear third and decide how much hock you want and cut that off. Bone out the rear hams and trim off excess fat. This is tedious, so just take your time. Make your cut in to the bone and cut it out as well as possible. Trim end for looks (Figure 13).

Put your bacon, hams and hocks into the curing bucket. Be sure to save enough fat for sausage and lard, and you're finished with this part.

Cutting up a cow

Begin with the hind quarter. Cut off the leg by making a cut with the meat saw from the hip to the tailbone. If you cut across the top, you will have round steaks. The first cuts are top round and are the best. Thicker cuts make round roasts. The small, less meaty part near the shank is the heel of round. The shank is a soup bone.

The muscle flap on the belly is the flank steak. Cut that off and remove the layers of fat. The rump roast is the meaty end that was cut away from the leg. Bone it out for a rump roast or just cut it off with the saw.

The top muscle on the remaining piece is all steak. You could cut through the backbone for each steak or bone it out and then cut into steaks. Or the part behind the ribs could be left whole for a sirloin roast. The meat underneath the backbone is the tender-

loin or filet mignon which can be removed and cut into steaks (butterfly) or left whole.

Your steaks, beginning at the rear just ahead of the rump roast and moving forward, are sirloin, porterhouse, T-bone, if boned, separate into the filet mignon and New York strip. The rib steaks could be left whole for a rib roast, which would be your best roast.

Everything left on this quarter is stew or burger. Stew meat is the better meat. Remove the fat and anything un-meatlike.

Now we're ready for the front quarter. To remove the leg, lift it up and start cutting underneath until you have cut behind the shoulder blade and separated the leg from the body. The part on the shoulder is called a blade roast. It can be boned or just cut with the saw to the size you prefer. The top part of the leg is chuck and can be made into roasts or steaks. It can be boned or not.

The lower part of the leg is burger or soup bone. There are probably a couple of rib steaks on the remaining piece, so cut these out. The neck meat is stew. The meat at the front that would have been just behind the leg is brisket. Remove that from its bone.

Cut as many ribs as you want for short ribs. Everything else is stew or burger. When making hamburger, use at least one fourth fat.

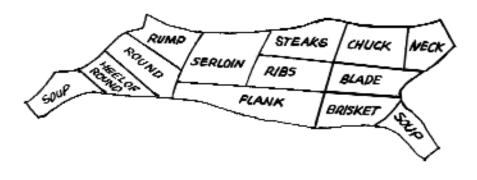


Figure 15. Cuts of meat from a cow.

Curing

Mix the brine before you cut up your pork, so you can just drop it right in. Two five-gallon buckets of food grade plastic works fine for two pigs. The recipe is for 100 lbs. of meat which should also be right for two pigs. Measure out 8 pounds of pickling salt and 2 pounds of sugar, honey, brown sugar or maple syrup. This is the critical part. Dissolve this in water. We add other spices such as cayenne, black pepper, garlic, etc. but this is only for added flavor and not necessary. The use of boiling water aids in dissolution.

Some people add saltpeter (nitrates), but all it does is make the meat a uniform pink, and I prefer not to use this additive. Bacon and hocks will cure in a week at 40° . Hams will take six weeks. For every day below freezing, another day should be added.

Weight the meat so it doesn't come above the brine, adding more water if necessary. Use a plate with a clean rock on top.

Sausage

Any kind of meat can be used for sausage. Just save whatever scraps you have from cutting up meat. You can use as little as ½ fat, but the sausage is much, much better if ½ is used.

Sausage making is one of the most fun of all my projects. But don't rush through it or it can turn into a nightmare. If you've just finished cutting up your pig, give yourself a break and wait until the next day to do the sausage.

I have enclosed several recipes that you might like to try. We like to make many different kinds each year. Whatever you do though, take the time to cook some of each type before you package it or stuff it into casings. It may be too bland or worse too spicy, in which case you'll have to add more meat.

If sausage is being made from pork, only one grinding will suffice but beef or goat should be ground twice using a coarser grind the first time.

Some recipes call for water and some don't, but if you're making link sausage you will have to add some liquid. Add enough so that the sausage is easy to work.

Smoking

Hardwood must be used for smoking so that the meat doesn't get resins in it, as it would from pine. When smoking hams, bacon and sausage, you use what is called a cool smoke. This means that the meat is not being cooked while it is being smoked. You can use anything to hold the meat and smoke. We built a smokehouse out of sheets of plywood, which enables us to walk inside to hang the meat.

We use an old woodstove to provide the smoke, which passes from the stove through a stovepipe with damper into the smokehouse. The pipe should go in fairly low, but not so low as to inhibit draw.

For an hour or so, leave the door ajar to let excess moisture escape. Then close it and try to keep the temperature around 100°. When it's done is a judgement call, but we give sausage approximately 12 hours, bacon 14, and hams 48. The color is the key. It should be the color of mahogany.

Recipes

Scrapple: basic recipe

By weight:

4 parts meat (ground or chopped)

3 parts broth

1 part cereal

Cornmeal is traditional, but oatmeal is sometimes used, as is buckwheat flour. Some people use half cornmeal and half buckwheat flour, while others substitute a little wheat germ for some of the cornmeal.

If using cornmeal, add some cool broth first to keep the cornmeal from lumping up. Then cook with the rest of the broth and the meat until it begins to thicken. Stir often and don't let it scorch.

At this point add the seasoning. Use whatever you like and leave the rest. The amounts given below are about right for the meat from one head (or about 8 lbs):

2 T salt

2 T pepper

1 T marjoram

1 T sage

1 t cayenne

½ T nutmeg

Trace of mace

2 T onion (ground or chopped)

½ t thyme

1 bay leaf

Pour into a lightly oiled loaf pan and chill. Turn out, cut to appropriate size, wrap and freeze. When ready to cook, slice and fry until brown outside but still soft inside. Scrapple is traditionally served with maple syrup.

The cereal-to-broth ratio needs to be pretty constant, but you can use more or less meat.

Pozole (poh-so-lay)

Meat from 1 head, chopped (about 8 lbs)

Broth to cover

4 lbs hominy

2 T salt

4 T chili powder

Cook 2 or 3 hours. When ready to eat, chop or shred cabbage, onions, and radishes and place in separate bowls.

To serve, ladle soup into bowls and top with the desired raw vegetables. Squeeze lime juice over all.

Tamales

Take the head meat and add cumin, crushed garlic, chopped hot peppers to make a nice spicy mixture. Eat or freeze.

Preparation: Traditionally, tamales are wrapped in corn husks. That's fine if it's summer (if they're dry, soak them to make them pliable). If corn husks are not available, there are plenty of other wrappers to choose from. I go to the garden to see what's available—cabbage leaves, chard, even lettuce. Even in the depths of winter I have something under straw that will do. The advantage is that the whole thing can be eaten.

Make the outer covering of cornmeal (I like to use masa) with some lard worked in and then add some water (like making biscuits). Add some garlic, cumin and cayenne and spread onto the wrapper. Roll up and steam for about two hours and serve.

Sausage: A few basic recipes

As you can see, the amounts of the various seasonings are really arbitrary. Feel free to add more or less according to what you like. Salt is really a matter of preference if the sausage is going to be frozen. Most recipes call for 2 T to 6 T for 10 lbs, but I prefer to stick with 2 T. If you like variety, try several recipes, but if you just want to get it done, go for the recipe for 100 lbs. Pork, beef and chevon can all be used in sausage. Chevon can be substituted in any recipe calling for game or beef. For smoked sausage, increase salt to 2 lbs per 100 lbs meat and add 3-5% water, or enough to make the sausage easy to handle.

Basic country sausage

10 lbs meat

2 T salt

4 t sage

4 t pepper

or

8 lbs meat

2 T salt

8 t sage

4 t pepper

1 t ground cloves

2 t nutmeg, thyme or allspice

A Backwoods Home Anthology

or

10 lbs meat

½ t marjoram

1 t mustard

2 T salt

1 T pepper

Spicier country sausage

10 lbs meat

2 T salt

21/2 t dry mustard

5 t pepper

2½ t cloves

5 t cayenne

61/2 T sage

or

10 lbs meat

2 T salt

5 t pepper

5 t fennel seed

1 t cayenne

2 t garlic

or

10 lbs meat

2 T salt

5 t marjoram

5 t pepper

11/2 t garlic

Basic sausage for quantity

100 lbs meat

1¾ lbs salt

2-4 oz sage

2-4 oz pepper

½ - 1 oz cayenne

½ - 1 oz cloves or 1 oz nutmeg





A BHM Writer's Profile



Dave Duffy is the founder, publisher, and editor of *Backwoods Home Magazine*. He built his own home in a remote area of the Siskiyou Mountains of southern Oregon while launching the magazine, and that home served as *BHM's* first office. Since the home was 10 miles from the nearest electric utility pole, Duffy installed a photovoltaic system to produce sun-generated electricity to run the computers and printers to publish the magazine.

Duffy has since moved the magazine 11.3 miles down the road, across the Oregon border and into northern California, where he is currently building a new office for *BHM* on the shore of a remote mountain lake.

Born in Boston, Duffy spent his first 29 years there, where he worked as a journalist for several daily newspapers. He then moved to Nevada and California, working as a journalist for newspapers and later as a writer and editor for the Department of Defense.

Unhappy with working for others and living near cities, he spent several years of vacations and long weekends building his hideaway in southern Oregon. He eventually fled the rat race for the woods. In 1989 he started *Backwoods Home Magazine* to help others do the same.